**Patent Number(s): JP49045014-A**
**Title:** Dicarboxylic acid glycol esters - prepd. by transesterification in presence of quat. ammonium halides or pyridinium halides, alkali metal hydride and other cpds
**Patent Assignee Name(s) and Code(s):** TOYO SPINNING CO LTD (TOYM-C); (TOYM-C)
**Derwent Primary Accession Number:** 1974-60632V [20]
**Patents Cited by Inventor:** 0 **Citing Patents:** 0 **Articles Cited by Inventor:** 0
**Patents Cited by Examiner:** 0 **Articles Cited by Examiner:** 0
**Abstract:**

Dicarboxylic acid glycol esters are prepd. by transesterification in the presence of (a) quaternary ammonium halides R1R2R3R4N+X- (R1-4 = 1-23C alkyl, PhCH2, Ph; X = halo) or pyridinium halides R(C5H5N+)X- (R = 1-23C alkyl, PhCH2 Ph) and (b) alkali metal hydrides or salts, M1M2R complex (M1-2 = metal; R = H, 1-4C alkyl), phosphines, tertiary amines, or their org. acid salts, with or without usual ester-interchange catalysts. This effects rapid transesterification. In an example, heating 582 parts di-Me terephthalate and 410 parts ethylene glycol with 1.92 parts cetyltrimethyl-ammonium chloride and 0.6 part KOAc at 197 degrees caused 90.5% transesterification in 30 min and the reaction completed in 60 min, compared with 78.3% and 185 min, resp., for the control (0.21 part Zn(OAc)2). Polymn. with Sb2O3 gave a colourless polyester of higher intrinsic viscosity.

**Derwent Class:** A41 (Monomers, Condensants (see also Section E)); E19 (Other organic compounds general - unknown structure, mixtures)
**Derwent Manual Code(s):** A02-A; A02-A07; A05-E01A; E10-E04
**Patent Details:**

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